Work Orde July-09-13 12:50	r ID 104378 - 0:58 PM		*104	378*							Page 1
Revision ID:	D3183-5 Bearing	A	Accept	*N900	040	100)*	Setup	Start Stop	*N:	S1* S2*
Start Date:	7/09/13 Start Qty: 50.0	° *50*		Cust Item I	D:						į
Required Date:	7/09/13 Req'd Qty: 50.0	° *50*		Customer:							•
Reference:		·				_		Run	Start	*NI	D1*
Approvals:	Process Plan: MLゴ QC:		Tooling: SPC (Y/N):		ate: ate:				Stop	**!	D0*
Sequence ID/ Work Center ID	Operation		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	t Rej Qty		Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr										
D3183	Rev C1										
*100	PURCHASING		0.00				(1)	L (=	2/07	1116	(50)
Purchasing Purchasing		expected: 2052\ Bearing as Conrad type, shieldedPossible S mity note is required	0.00 per Dwg D3183Single upplier: NSK P/N 6800					- 1-0		(
110	Receive & Inspect for	Damage & Mat'l Certs	0.00						///		6
110 Packaging Packaging	Memo Ensure c	ertificate of confomity is attach	0.00 ed				19	(3/1)	// d		90)
120	QC6- Inspect dimens	ions to drawing	0.00	Ş			67				
120 QC Quality Control	Memo		0.00	L D			<u> </u>				

DQA:			Date:			. WORK ORDER NON		201501	2242265 / 111	DD 4 TE			DART
QA Closed:			Date:			WORK ORDER NON-	-C(JNFOI	KIVIANCE / UI		Vork Order up	odate only	AEROSPACE
W-10.1			!			DISPOSITION			· · · · · · · · · · · · · · · · · · ·	AGAINST D	EPARTMENT	/PROCESS	
Work Orde	er: _					Rework			Skid-tube	Crosstube	7	Water Jet] [naineouina
Part N	lo.					Scrap			Machining	Small Fab	Pro	d. Eng. Coor.	Engineering Quality
	-		-			Use-as-is			noforming	Finishing		re/Packaging	Other
NCR N	10					Suspected Unapproved		:	Large Fab	Composite		Supplier	
Root	Т		· 		Desci	l ription of work order update		nitial	Act	ion	Sign &		
Cause		Date	Step	Qty		or non-conformance	Ch	ief Eng	Descr	ription	Date	Verification	QC Inspector
Design			i										
Doc/Data													
Equip/Tooling										•			
Handling/Pre													
Material													
Operator													
Offset/Setup			,										
Process													
Supplier		:											
Training]		
Transport													
Unapproved						;							
							FAI	ULT CAT	TEGORY				
Landir	ng G	ear				General		<u>.</u>					
		Bending	*			Bend		Folio/P	rogram	Γ	Outside Dim	ensions	Pressure/Forced
		Centre No	ot Concer	ntric		BOM/Route		Grain			Over/Under	tolerance	Set-up
		Cracks				Broken/Damage/Defect		Hardwa	re		Part Incorred	ct	Temperature/Cure
		Crimp/Kin	k/Ripple	/Wave		Burrs		inspecti	ion Incomplete/Ur	ngualified	Part Lost/Mi	ssing	Weld
		Cuffs				Contamination		व्यः भा″	ions Incomplete/U		Part Moved		Wrong Stock Pulled
		Crushing				Countersink			ned/off center		Positioned V		J ~
ļ		Heat Trea	t			Cut Too Short		Mislabe			Power Loss/	_	Other
		Inspection	n Strip in	Tube		Drawing		Misread				_	
Ì		Marks/Ch	atter			Drill Holes		Off-set					
		Turning S	equence			Finish		i	Calibration				
		Wave/Tw	ist in Tub	e		Fit/Function		ł	Sequence				

Work Ord July-09-13 12:		4378		*104	1378*				Page 2
Item ID: Revision ID: Item Name:	D3183-5 Bearing			Accept	*N9000	40100	* Setup	Start Stop	*NS1* *NS2*
Start Date: Required Date Reference:	7/09/13 :: 7/09/13	Start Qty: 50.00 Req'd Qty: 50.00	*50° *50°		Cust Item ID: Customer:				
Approvals:		ın:	Date:	Tooling: SPC (Y/N):	Date:		Run	Start Stop	*NR1* *NR2*
Sequence ID/ Work Center I 130 *120* Packaging	ID	Operation Description Identify as per dwg & Sto	ock Location: 573	Set Up/ Run Hours 0.00	Tool ID T	Fool # Plan Code	Accept Rej Qty Qty	, N	Reject Insp. Number Stamp 10, 13-07-15
140 *140 QC		QC21- Final Inspection -	Work Order Release	0.00				13	11/11/19
Quality Control									MIF 15

DQA:			Date:											DA	PT
						WORK ORDER NON	-C(ONFO	RMANCE / U	IPDATE				A E R O	S P A C E
QA Closed:			Date:								W	ork Order up	odate only		
Work Orde	er:					DISPOSITION				AGAINST	DE	PARTMENT	/PROCESS		
	_				_	Rework]		Skid-tube	Crosstube			Water Jet	Engineerin	g
Part N	۱٥	,	+			Scrap	1		Machining	Small Fab		Pro	d. Eng. Coor.	Qualit	:у
						Use-as-is		Thern	noforming	Finishing		Rec/Stor	re/Packaging	Othe	er 💹 🔝
NCR N	No		!			Suspected Unapproved			Large Fab	Composite			Supplier		
Root	T		<u> </u>		Desc	ription of work order update		Initial	Ac	tion	-	Sign &			
Cause		Date	Step	Qty		or non-conformance	Ch	ief Eng	Desc	ription		Date	Verification	QC Inspe	ctor
Design															
Doc/Data			i												
Equip/Tooling															
Handling/Pre			ļ.;												
Material															
Operator			;												
Offset/Setup			i												
Process	Ш														
Supplier	Ш		.												
Training															
Transport							İ								
Unapproved															
			.,				FA	ULT CAT	regory						
Landi	ng G	ear				General		_				_			
	L	Bending				Bend		Folio/P	rogram			Outside Dim	ensions	Pressure/Ford	ced
	Ц	Centre No	ot Concer	ntric		BOM/Route		Grain				Over/Under	tolerance	Set-up	
	Щ°	Cracks				Broken/Damage/Defect		Hardwa	re ·			Part Incorred	ct [Temperature	/Cure
:	Ц°	Crimp/Kir	ık/Ripple	/Wave		Burrs		Inspecti	ion Incomplete/U	Inqualified		Part Lost/Mi	ssing	Weld	
	Ц°	Cuffs				Contamination		Instruct	ions Incomplete/	'Unclear		Part Moved		Wrong Stock	Pulled
	Ш	Crushing				Countersink		Misalig	ned/off center			Positioned V	Vrong		
	╚	Heat Trea	t			Cut Too Short		Mislabe	eled			Power Loss/	Surge	Other	
		nspection	1 Strip in	Tube		Drawing		Misread	i			<u>-</u>			and the second s
		Marks/Ch	atter			Drill Holes		Off-set							
		Turning S	equence			Finish		Out of 0	Calibration						
	LΠ	Wave/Tw	ist in Tub	ne		Fit/Function		Out of s	Saguenca						

Picklist Print

*July-09-13 12:50:58 PM

Work Order ID:

104378

Parent Item:

D3183-5

Parent Item Name:

Bearing

Start Date: 7/09/13

Required Date: 7/09/13

Start Qty: 50.00

Required Qty: 50.00

Comments:

IPP: A03.03.27New issueKJ/RF

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
6800ZZ		Purchased	No		1,	100	Each	0.0000	1	50	//.	2/2/	//
Bearing									<u> </u>	3=1	79	3/1/	12

50

Page 1

DQA:			Date:										TRAGG	
QA Closed:			Date:			WORK ORDER NON-	-C(ONFO	RMANCE / UP		ork Order up	odate only	AEROSPACE	
			1			DISPOSITION					PARTMENT	· · · · · · · · · · · · · · · · · · ·		
Work Orde	er: _			. <u></u> .	_	6 [61:1		7	\ 4 /2425	7	
Part N	lo.		:			Rework Scrap	1		Skid-tube Machining	Crosstube Small Fab	Dro	Water Jet d. Eng. Coor.	Engineering Quality	
raiti	•0		i		-	Use-as-is	1		noforming	Finishing	⊣	e/Packaging	Other	
NCR N	10				_	Suspected Unapproved		IIICII	Large Fab	Composite	- Keeyston	Supplier		
Root					Descr	ription of work order update	1	nitial	Acti	on	Sign &			
Cause		Date	['] Step	Qty		or non-conformance	Ch	ief Eng	Descri	ption	Date	Verification	QC Inspector	
Design														
Doc/Data	Ш					•								
Equip/Tooling														
Handling/Pre														
Material														
Operator														
Offset/Setup														
Process														
Supplier														
Training														
Transport														
Unapproved			ļ _.											
		<u> </u>					FAI	ULT CA	TEGORY					
Landi						General		1		_	7	_		
	-	Bending				Bend		ł	Program	_	Outside Dim	}	Pressure/Forced	
	-	Centre No	ot Concer	ntric	<u> </u>	BOM/Route		Grain			Over/Under	tolerance	Set-up	
		Cracks			<u> </u>	Broken/Damage/Defect		Hardwa			Part Incorred	t _	Temperature/Cure	
	-	Crimp/Kir	nk/Ripple	:/Wave		Burrs		1 '	ion Incomplete/Un	· —	Part Lost/Mi	ssing	Weld	
•	-	Cuffs			<u> </u>	Contamination		1	tions Incomplete/U	nclear	Part Moved	L	Wrong Stock Pulled	
	-	Crushing			_	Countersink		1 `	gned/off center		Positioned V	· · -	_	
	\vdash	Heat Trea				Cut Too Short		Mislabe			Power Loss/	Surge	Other	
	-	Inspectio		Tube	<u> </u>	Drawing		Misrea	d					
	$\overline{}$	Marks/Ch			<u> </u>	Drill Holes	<u> </u>	Off-set					······································	
	_	Turning S	-			Finish		Out of	Calibration					
		Wave/Tw	ist in Tub	oe .		Fit/Function		Out of	Sequence					



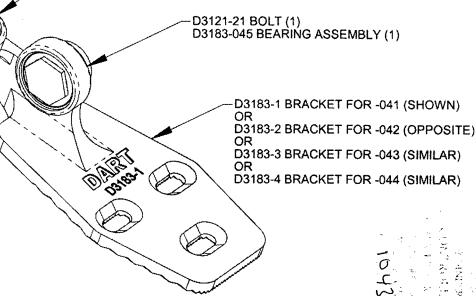


DESIG	#	DRAWN BY	DART AEROSPACE HAWKESBURY, ONTARIO, CAI	
CHECK	#	APPROVED	DRAWING NO.	REV. C
DATE	04.	02.17	BRACKET ASSEMBLY	SCALE 1:1
Α	0	3.01.24	NEW ISSUE	
В	0	3.06.17	REMOVE BEARING; 1.012 WS 0.88	2
С	,0	4.02.17	ADD -045/-9; 0.182 WAS 0.431	
Ci	-#7	04.11.09	0-830 WAS 0-850	

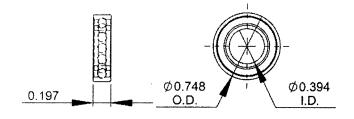
RELEASED

DEO ATTACHED

D3121-21 BOLT (1) D3183-045 BEARING ASSEMBLY (1)



D3183-041 BRACKET ASSEMBLY (SHOWN) D3183-042 BRACKET ASSEMBLY (OPPOSITE) D3183-043 BRACKET ASSEMBLY (SIMILAR D3183-044 BRACKET ASSEMBLY (SIMILAR



D3183-5 BEARING: SPECIFICATION CONTROL DRAWING

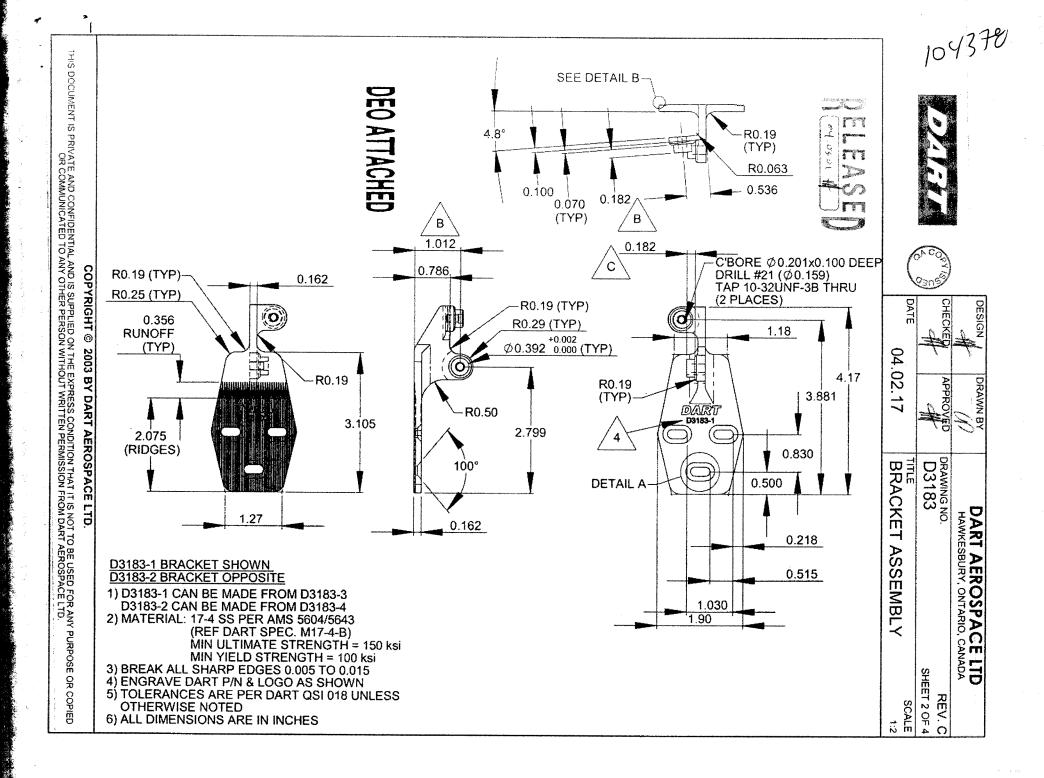
- 1) SINGLE ROW, DEEP GROOVE. CONRAD TYPE, SHIELDED 2) POSSIBLE SUPPLIER: NSK P/N 6800ZZ
- 3) ALL DIMENSIONS ARE IN INCHES

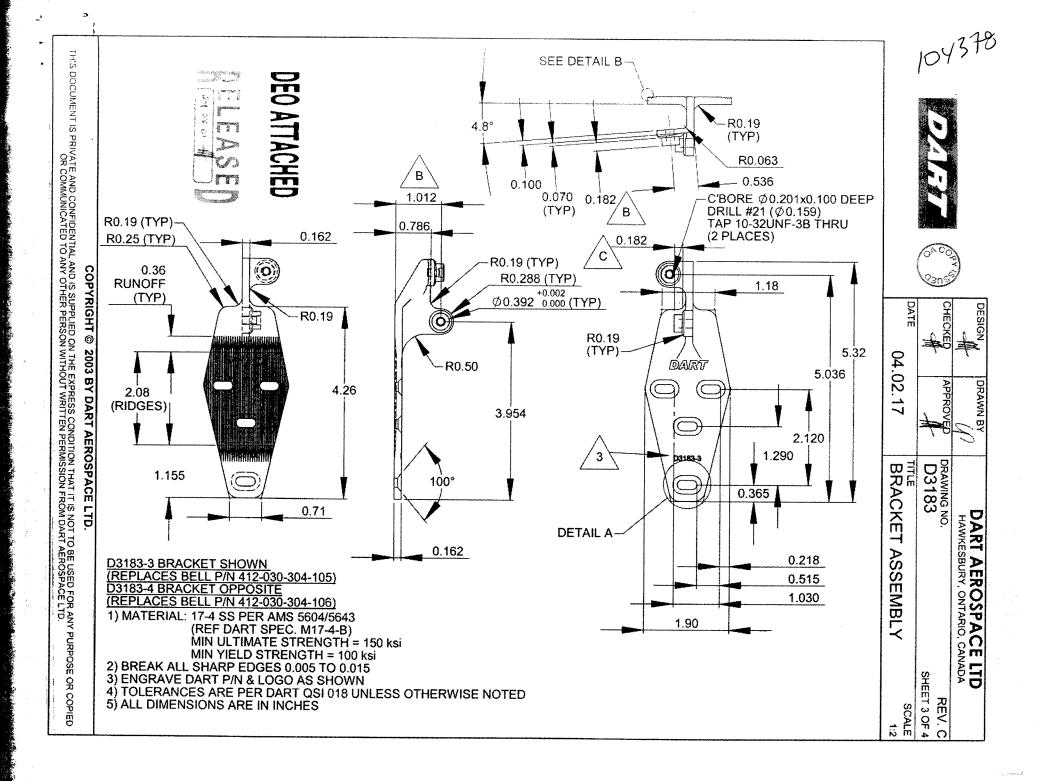
0.052 ±0.005 Ø0.394 0.000 l.D Ø0.600 O.D.

D3183-7 WASHER

- 1) MATERIAL: AISI 303 ROUND BAR (M303R) **ANNEALED**
- 2) BREAK ALL SHARP EDGES 0.005 TO 0.010
- 3) TOLERANCES ARE PER DART QSI 018 **UNLESS OTHERWISE NOTED**
- 4) ALL DIMENSIONS ARE IN INCHES

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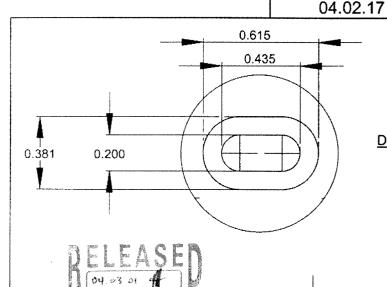








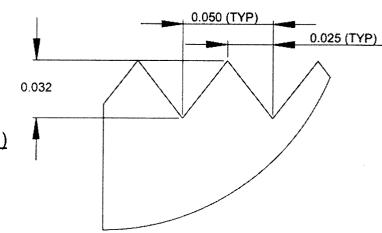
			•
DESIGN	DRAWN BY	DART AEROSPACE	
113	"1	HAWKESBURY, ONTARIO, CA	ANAUA
CHECKED	APPROVED	DRAWING NO.	REV. C
CAP CAP	GH-	D2402	31LV. U
118	I	D3183	SHEET 4 OF 4
DATE	-	TITLE	SCALE
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	.02.17	DDACKET ACCEMBLY	
U4.	.UZ. 17	BRACKET ASSEMBLY	1:1

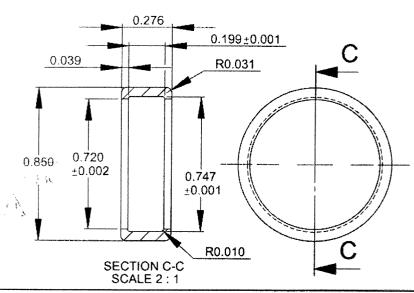


DETAIL A (2:1)

DEO ATTACHED

DETAIL B (20:1)





D3183-9 CAP

- 1) MATERIAL: DELRIN ROD, Ø1.00
- (REF DART SPEC. M-DELRIN-R1.00)
 2) TOLERANCES ARE PER DART QSI 018 **UNLESS OTHERWISE NOTED**
- 3) ALL DIMENSIONS ARE IN INCHES

D3183-045 BEARING ASSEMBLY

1) ASSEMBLE D3183-5 BEARING AND D3183-9 CAP

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•	
-1	. For all

DRAWING 1	NO. TITLE		, REV.C1	DART AEROSPACE LTD	D.E.O. NO.	SHEET NO.	SCALE
D3183	BRACKET	Γ ASSEMBLY	1	ENGINEERING ORDER	D3183-C1-1	SHEET 1 OF 1	NTS
DRAWN	P	CHECKED	上	Juse Appr Al	APPROVED AM	DE APPR.	1110
DATE	10.05,14	DATE	10.06.30	DATE (8.06.30	DATE 10/06/30	DATE (0/06/30	

D3183-5 BEARING

ADD POSSIBLE SUPPLIER: KML P/N 6800-ZZ

BASIC LOAD RATING REQUIREMENT:

Cr = 1720 N (386 lb) MIN [DYNAMIC]

Cor = 840 N (188 lb) MIN [STATIC]

REF PAR 10-012



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Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7

Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO20521

Purchase Order Date 7/11/2013 PO Print Date 7/11/2013

Page Number 1 of 1

Order From:

CA

VC-MAI001

DART AEROSPACE LTD Ship To:

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

.CANADA



Contact Name

1475, TESSIER

Vendor Phone

613 632 3595

MAIN INDUSTRIAL SALES LTD.

HAWKESBURY, ON K6A 3S6

Chantal Lavoie

Customer POID Customer Tax #

10127-2607 Net 30

Terms Currency

CAD

FOB

Buyer

Destination-Collect

Ship To Contact Ship To Phone

Ship Via:

Yours ppd

Ship Acct:

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	List Price	Disc %	Discounted Unit Price	Extended Price
1	6800ZZ	Bearing `	7/15/2013 Yes		50.00 Each				\$74.00
	AS PER DWG D3183 REV. C	C1 B104378	7/15/2013	(

Line Total:

\$74.00

PO Total:

\$74.00

Note: Pricing listed above is as per contract agreement between Dart Aerospace and the respective manufacturer.

No substitution or deviation without consent.

Certificate of Conformity or Material Certification required -YES

Change Nbr:

Change Date:

7/11/2013

MAIN INDUSTRIAL SALES LTD.

1475 TESSIER ST. HAWKESBURY ON K6A 3S6

Phone: (613) 632-3595 Ext. Fax: (613) 632-0262

sales@mainindustrialsales.com

Packing Slip

DATE July 12, 2013

NUMBER 0000164205

CUSTOMER NO. DART

BILL TO:

DART AEROSPACE LTD. 1270 ABERDEEN ST. HAWKESBURY ON K6A 1K7 SHIP TO:

DART AEROSPACE LTD. 1270 ABERDEEN ST. HAWKESBURY ON K6A 1K7

(613) 632-5200 Ext.

(613) 632-5200 Ext.

P.O. NUMBER	SALESPERSON	ORDER DA	ATÉ REQ. DAT	E ORDER NUMBE
20521	EB	11-Jul-13		0000164205
F.O.B.	SHIP VIA		TI	ERMS
F.O.B. value	OUR TRUCK / LOCAL	-	NET	30 DAYS
ART NUMBER				QUANTITY
DESCRIPTION	LOCATION	UON	A REQ.	SHIPPED B.O.
68002ZKML	6D6	EA	50	50
BALL BEARING	المعادم والمستعدد والمستعد والمستعدد والمستعد والمستعدد والمستعد والمستعدد و			
YOUR PART #: 6800ZZ				
*				